

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/017158

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61P25/24 A61K31/365 A61K31/192 A61K31/196 A61K31/045
A61K31/05 A61K31/4164 A61K31/4172

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, MEDLINE, SCISEARCH, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KRAVITZ H M ET AL: "Dietary supplements of phenylalanine and other amino acid precursors of brain neuroamines in the treatment of depressive disorders" JOURNAL OF THE AMERICAN OSTEOPATHIC ASSOCIATION 1984 UNITED STATES, vol. 84, no. 1 SUPPL., 1984, pages 119-123, XP008067181 abstract ----- -/--	1,2,8, 11,23-25

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

11 September 2006

Date of mailing of the international search report

14 12 2006

Name and mailing address of the ISA/

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CASINI A ET AL: "CARBONIC ANHYDRASE ACTIVATORS, THE SELECTIVE SEROTONIN REUPTAKE INHIBITORS FLUOXETINE, SERTRALINE AND CITALOPRAM ARE STRONG ACTIVATORS OF ISOZYMES I AND II" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 13, no. 16, 18 August 2003 (2003-08-18), pages 2765-2768, XP008065595 ISSN: 0960-894X cited in the application abstract page 2767, column 2, paragraph 2	1,2,8, 11,23-25
A	MANNISTO P T ET AL: "BENEFICIAL EFFECT OF CO-ADMINISTRATION OF CATECHOL-O-METHYLTRANSFERASE INHIBITORS AND L-DIHYDROXYPHENYLALANINE IN RAT MODELS OF DEPRESSION" EUROPEAN JOURNAL OF PHARMACOLOGY, AMSTERDAM, NL, vol. 274, no. 1-3, 1995, pages 229-233, XP001165774 ISSN: 0014-2999 abstract	1,2,8, 11,23-25
A	WO 98/32464 A (GOLDSHIELD PHARMACEUTICALS LIMITED; BRIDGEMAN, KEITH) 30 July 1998 (1998-07-30) claims 1,17	1,2,8, 11,23-25
A	BEERS ET AL.: "Merck Manual" 1999, MERCK, WHITEHOUSE STATION, N.J., XP002398044 the whole document	1,2,8, 11,23-25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1, 2, 8, 11, and 23-25 are directed to a method of treatment /diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-2, 8, 23-25 (all partially), 11

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-2, 8, 23-25 (partially); 11 (completely)

A method according to claims 1 or 23 comprising administering a composition comprising a carbonic anhydrase activator wherein the activator is phenylalanine

2. claims: 1-3, 8, 23-25 (partially); 12-17 (completely)

A method according to claims 1 or 23 comprising administering a composition comprising a carbonic anhydrase activator wherein the activator is a derivatic phenylalanine amino acid as outlined in said claims

3. claims: 1, 4-5, 8, 23-25 (partially); 9 (completely)

A method according to claims 1 or 23 comprising administering a composition comprising a carbonic anhydrase activator wherein the activator is histidine, also substituted as outlined in said claims

4. claims: 1-5, 8, 23, 25 (partially); 10, 18, 19-22, 26, 27 (completely)

A method according to claims 1 or 23 comprising administering a composition comprising a carbonic anhydrase activator wherein the activator is an aromatic amine according to the application

5. claims: 1, 8, 28 (partially); 6 (completely)

A method comprising the steps of identifying a subject with a depressive disorder and administering a composition comprising a carbonic anhydrase activator and a pharmaceutically acceptable carrier to said subject, wherein the activator is a compound of Structure II according to the application

6. claims: 1, 8, 28 (partially); 7 (completely)

A method comprising the steps of identifying a subject with a depressive disorder and administering a composition comprising a carbonic anhydrase activator and a pharmaceutically acceptable carrier to said subject, wherein the activator is Structure III according to the application

7. claims: 29-38 (completely)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A method comprising the steps of identifying a subject with a depressive disorder and administering a composition comprising a protein C kinase activator including fibroblast growth factors and a pharmaceutically acceptable carrier to said subject according to claim 29 or 34

8. claims: 39-46 (completely)

A method of screening according to claim 39

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/017158

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9832464	A	30-07-1998	
		AT 260117 T	15-03-2004
		AU 741511 B2	06-12-2001
		AU 5772598 A	18-08-1998
		DE 69821929 D1	01-04-2004
		DE 69821929 T2	11-11-2004
		EP 0980260 A1	23-02-2000
		ES 2217534 T3	01-11-2004
		US 6200607 B1	13-03-2001
		ZA 9800687 A	08-09-1998
